

We claim:

1. A composition comprising:

wine;

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salt; and

sulfur dioxide (SO₂), wherein the composition is a disinfectant.

2. The composition of claim 1, wherein the wine is a waste wine, surplus wine, cluster thinnings wine, or pomace wine, or a combination thereof.

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3. The composition of claim 1, wherein the salt is present at a concentration of at least about 1.5% w/v in the composition.

4. The composition of claim 1, wherein the sulfur dioxide is present at a
15 concentration of at least about 30 parts per million (ppm) in the composition.

5. The composition of claim 1, wherein the sulfur dioxide is present at a concentration of about 30 ppm – about 350 ppm in the composition.

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6. The composition of claim 1, wherein the composition further comprises a titratable acidity as tartartic acid of at least about 5 grams per liter.

7. The composition of claim 1, wherein the composition further comprises a titratable acidity as tartartic acid of about 5 - about 30 grams per liter.

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8. The composition of claim 1, wherein the composition further comprises a volatile acidity as acetic acid of at least about 0.3 gram per liter.

9. The composition of claim 1, wherein the composition further comprises a volatile
30 acidity as acetic acid of about 0.3 - about 10 grams per liter.

10. The composition of claim 1, wherein the composition has a pH of at least about 2.5.

11. The composition of claim 1, wherein the composition has a pH of about 2.5 to
5 about 4.0.

12. The composition of claim 1, wherein the wine comprises at least about 5% alcohol by volume.

10 13. The composition of claim 1, wherein the composition reduces a number of viable microbes by at least about 90%.

14. A composition comprising:

15 a waste wine;
at least about 1.5% salt w/v; and
at least about 30 ppm sulfur dioxide, wherein the composition is a
disinfectant and comprises no more than about 24% alcohol by volume.

15. A composition comprising:

20 a waste wine;
at least about 1.5% salt w/v; and
at least about 30 ppm sulfur dioxide, wherein the composition is a
disinfectant and comprises at least about 5% alcohol by volume.

25 16. A composition comprising:

a waste wine;
about 1.5% - about 10% salt w/v; and
about 30 ppm – about 350 ppm sulfur dioxide, wherein the composition is a
disinfectant and comprises about 5% to about 24% alcohol by volume.

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17. A composition comprising:

a waste wine;

- about 1.5% - about 10% salt w/v;
about 30 ppm – about 350 ppm sulfur dioxide,
volatile acidity as acetic acid of about 0.3 - about 10 grams per liter; and
titratable acidity as tartaric acid of about 5 - about 30 grams per liter,
5 wherein the composition is a disinfectant and has a pH of about 2.5 to about 4.0 and
comprises about 5% to about 24% alcohol by volume.

18. A composition comprising:

- a pomace wine;
10 at least about 1.5% salt w/v; and
at least about 30 ppm sulfur dioxide, wherein the composition is a
disinfectant and comprises at least about 5% alcohol by volume.

19. A composition comprising:

- 15 a cluster thinning wine;
at least about 1.5% salt w/v; and
at least about 30 ppm sulfur dioxide, wherein the composition is a
disinfectant and comprises at least about 5% alcohol by volume.

- 20 20. A method of disinfecting an object, comprising contacting the object with the
composition of claim 1.

21. A method of disinfection, comprising:

- contacting an object with the composition of claim 1;
25 allowing the composition of claim 1 to remain on the object for a period of
time needed to reduce a number of viable microbes by a desired amount.

22. A method of disinfection, comprising:

- contacting an object with the composition of claim 1;
30 allowing the composition of claim 1 to remain on the object for a period of
time needed to reduce a number of viable *S. aureus* by at least about 99%.

23. A method of disinfection, comprising:

contacting an object with the composition of claim 1;

allowing the composition of claim 1 to remain on the object for a period of time needed to kill all detectable viable *E. coli*.

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24. A method of disinfecting an animal carcass, comprising contacting the animal carcass with the composition of claim 1.